

MARCH

at the

CALIFORNIA ACADEMY OF SCIENCES

MARCH MEETINGS

(For Members and Their Guests)

DATES: Wednesday evening March 17 and
Thursday evening March 18

TIME: 8:00 p.m.

PLACE: May Treat Morrison Auditorium

SPEAKER: Robert T. Orr

SUBJECT: "THE MYSTERIES OF ANIMAL
MIGRATION"

Why does the California Gray Whale annually travel the thousands of miles from the Arctic seas to distant Scammons Lagoon in Baja California? How do millions of bats make their way from caves in the United States to others in Mexico? How does the sea turtle locate its objective of tiny Ascension Island in the remotenesses of the central South Atlantic? By what method do displaced warblers and sparrows know the way from Louisiana to San Jose?

Incredible journeys all — spanning the world — and just a few among those examined by Dr. Orr, Associate Director of the Academy and Chairman of its Department of Ornithology and Mammalogy. Author of more than 200 scientific and popular articles as well as such notable texts as *Vertebrate Zoology* and *Animals in Migration*, he has long been occupied in researching the amazing capabilities of migrating animals and the strong motivations behind them. Just *how* do they find their way? You will be truly amazed at what comes into play in these fantastic journeys.

Dr. Orr will discuss the various means of the research involved: bird-banding; fish scale or fin cutting; implantation of radioactive substances for tracing by Geiger counter; capture guns for banding large animals, or for installation of tiny transmitters. (One small radio-tabbed thrush, followed by a tracking plane at night, took an eight-hour, non-stop junket from Urbana to Chicago, then north up the center of Lake Michigan — a total of 400 miles!).

There will be two consecutive meetings as indicated and points of ingress to the Academy are the main entrance, Cowell Hall, and the rear Planetarium entrance off Middle Drive. Your 1970 and 1971 mem-

bership cards are your admission. If the auditorium should be filled as it has at recent meetings, members will be invited to enjoy the current sky show in Morrison Planetarium. We realize this is small solace for those who come specially for the monthly meetings but the limits of the seating in our auditorium are hard and incontrovertible facts for which we sincerely beg your indulgence.

MORRISON PLANETARIUM

"MUSIC OF THE SPHERES", the highly successful sky show first presented last year and now returning for encore performances March 4 through April 25. This is an experiment in wedding the sky, the stars and William Shakespeare whose great works are rich in celestial references which reflect his attitudes and the age in which he lived. Special music has been composed for this show and professional actors have been involved in its production.

Performances daily at two with evening shows, Wednesday through Sunday, at eight. Extra performances Saturdays, Sundays and holidays at 3:30. Closed Monday and Tuesday nights. Admission: \$1.00 for adults, with half-price for children under 16, students with student body card, and armed services personnel.

A SPECIAL EXTRA ATTRACTION

DATES: Saturday and Sunday evenings,
March 27-28 at 8:00 p.m.

PLACE: Morrison Planetarium

EVENT: "FABRIZIO PLAYS FABRIZIO AND
BACH."

Continuing the special events in the Theatre of the Stars, Margaret Fabrizio once again brings her harpsichord and her superior talent to present an evening of music — her own compositions and those of Mr. J. S. Bach — accompanied by stunning celestial goings-on on the 65-foot dome of the planetarium. Two performances only as indicated for which tickets, at \$2.00 each, are available March 8 by mail or by contacting the Planetarium Office at 221-5100, Extension 71. Seating is limited and we suggest your placing your orders promptly.

Coming in late April: THE DIFFERENT FUR TRADING COMPANY in an evening of contemporary music featuring a Moog synthesizer. Information in the April NEWSLETTER.

SPECIAL EXHIBITS

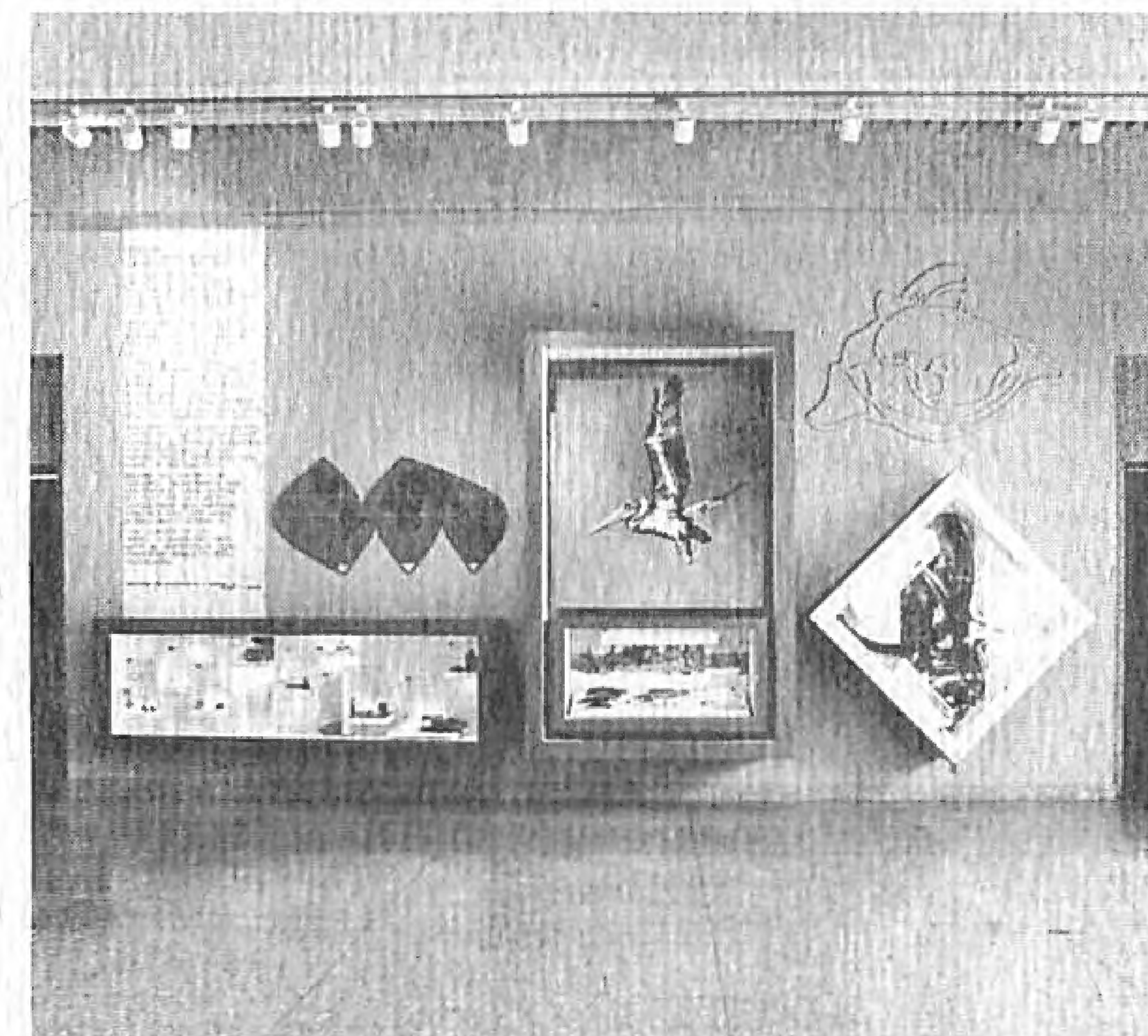
"SPACE PAINTINGS BY CHESLEY BONESTELL" continues adjacent to the Hohfeld Hall of Space Science. Forty original paintings of space sub-

jects by a distinguished painter-architect-astronomer and one of the world's foremost illustrators of planets, planetary surfaces, stars and other celestial themes. Continues through March 31.

"SAVE THE BAY FOR LIFE" continues in Lovell White Hall. An arresting combination of photographs and text dealing with an endangered area — San Francisco Bay — and the concern of us all.

"THE HUMAN CELL AND ITS SIX BASIC NEEDS" also continues in Lovell White Hall.

NEWS and NOTES



AS A TRIBUTE to the man whose name it bears, the Barrett G. Hindes Memorial Exhibit has now been completed in the Academy's Cowell Hall. Covering the north wall, the permanent display is devoted to informing its viewers of specifics about the CAS — its history, its purposes, descriptions of its research departments, a map of its far-flung expeditions, and a changing display of unusual specimens or artifacts seen ordinarily only by the curatorial staff but which now can be shared with the public. (The current exhibit titled "Winter White" is concerned with the seasonal color adaptations of the snowshoe hare, the ptarmigan, and the longtail weasel).

Barrett Hindes, a member of the Board of Trustees from 1957, and its Treasurer from 1961 until his death in 1964, was a staunch Academy supporter. On his decease, his widow requested that contributions from his friends should be made to the Acad-

emy. This memorial exhibit, designed by Richard Cook of the Department of Exhibits, is the result.

One part of the text, we believe, would have given Mr. Hindes particular pleasure: "While here, share our enthusiasm for the wonders of the world and take with you our curiosity to learn."

IT IS OUR WISH to make the membership particularly aware of the regular program of guided tours of special areas of the Academy which the Docent Council has made available. There is no charge for this service nor is there an admission fee for organized groups visiting the Academy.

Tours are scheduled Monday through Friday at ten and eleven in the morning. Reservations are necessary and may be made by calling the Docent Office at (415) 221-5100. The areas which the trained tour guides will explore the North American Bird and Mammal Halls, Fossil Hall, and Simson African Hall. The tours last approximately forty-five minutes.

DR. ROBERT C. MILLER, Senior Scientist and former Director of the Academy, was bestowed a singular honor on December 16 when the Board of Directors of the Ecuadorian Institute of Natural Sciences, in accordance with their statutes, made him a Corresponding Member.

FOR YOUR CALENDAR:

The Docent Council will be inviting you to a gala fund-raising event, "AFRICAN ADVENTURE", a special Academy bazaar and safari, on Thursday evening, April 29, 6:30 to 10:00 p.m. Invitations to follow.

NEW MEMBERS OF THE ACADEMY

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Mr. Douglas Corrick	Mrs. Arthur Moore
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Dr. T. R. Delebo	Miss Catherine Powers
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Miss Audrey M. Earl	Mr. G. M. Rast

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	Mr. & Mrs. George Worthy

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Mr. George D. Greger	Mr. & Mrs. E. A. Shurtleff

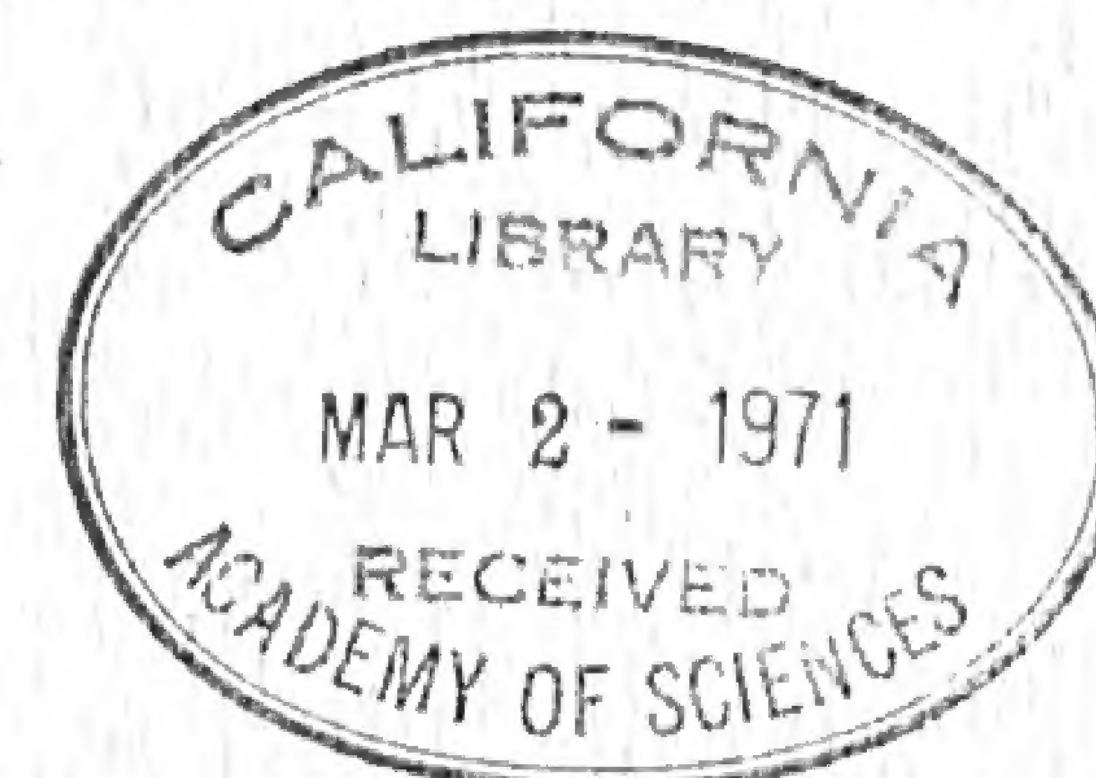
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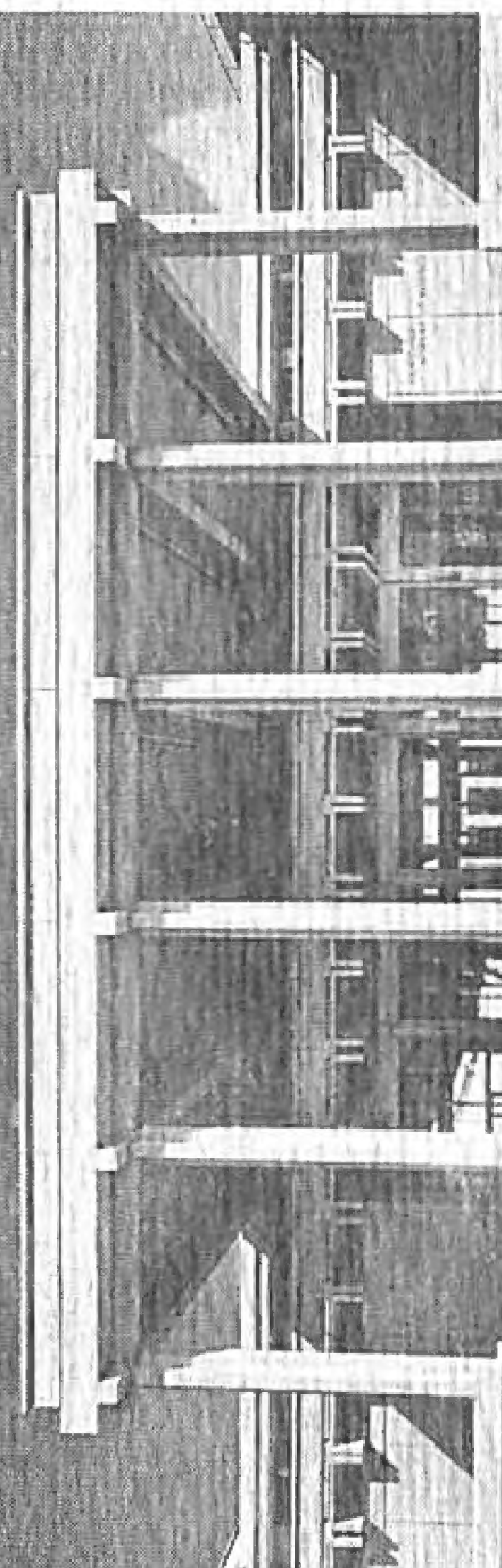
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no. 375



ACADEMY NEWSLETTER



No. 375 — Published Monthly by the

CALIFORNIA ACADEMY OF SCIENCES
GOLDEN GATE PARK • SAN FRANCISCO 94118

MARCH 1971